



Project: Alaska Copper Works

Inspection Date: 3/6/20

Project No.: 19ACW1

Technician: Elaine Lytle

System Performance:

Was system running during the inspection? ☒ Yes ☐ No

Flow Rates (gpm)	Influent	<u>130.2</u>	Effluent	<u>138.2</u>	The flows should be ~155 gpm
Bag Filter #1 Pressures (psi)	Influent	<u>9</u>	Effluent	<u>7</u>	The bag filters should be replaced if differential pressure > 8 psi
Bag Filter #2 Pressures (psi)	Influent	<u>9</u>	Effluent	<u>9</u>	
Carbon Filter Pressures (Lead)	Influent	<u>8</u>	Effluent	<u>6</u>	The carbon filters should be backflushed if differential pressure > 8 psi
Carbon Filter Pressures (Lag)	Influent	<u>5</u>	Effluent	<u>0</u>	

Were the bag filters replaced? ☒ Yes ☐ No

Was the carbon backflushed? ☐ Yes ☒ No

Maintenance and Inspection Checklist:

Task	Completed (Y/N)	Issues/Notes/Comments
Walchem Controller Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No issues.
Flow Meters Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Influent flow meter reading properly.
Level Sensor Cleaning/Inspection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Reading properly.
Inspect System Plumbing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Had to clean out check valve on backflush tank. Works now.
Pumps Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Running properly.
General Housekeeping	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Clean and organized. Four dirty cartridge filters out on site.
Chemistry Level	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2/3 in a 55 gallon drum, one full 55 gallon drum.
Safety Materials Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	All there in job box.
pH Probe Inspection/Calibration	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Calibrated to 6.95 pH



Water Sampling:

Were water samples taken? ☒ Yes ☐ No

Raw water:	pH	<u>6.48</u>	Turbidity	<u>6.63</u>	NTU
Bag Filter Influent	pH	<u>8.30</u>	Turbidity	<u>6.11</u>	NTU
Bag Filter Effluent	pH	<u>8.23</u>	Turbidity	<u>5.26</u>	NTU
Carbon Filter Influent	pH	<u>8.41</u>	Turbidity	<u>8.48</u>	NTU
Carbon Filter Effluent	pH	<u>7.77</u>	Turbidity	<u>3.04</u>	NTU

Monthly Tasks:

Were samples submitted to Analytical? ☐ Yes ☒ No

Analytical Lab: N/A

Was Walchem data downloaded? ☐ Yes ☒ No

Were the tank sludge levels checked? ☐ Yes ☒ No

Sludge Depth (inches):

Decant Tank:	<u>N/A</u>
Treatment tank:	<u>N/A</u>
Backflush tank:	<u>N/A</u>
Main lift station:	<u>N/A</u>
North lift station:	<u>N/A</u>
South lift station:	<u>N/A</u>

Additional Comments, Recommendations and System Upsets:

Cartridge filters were changed out this morning. There was water dumping on the ground from the backflush tank. The check valve was plugged and letting water into tank from the influent line. Check valve (ball style) was clean out and works properly.

Elaine Lytle

Technician

Water Treatment Tech

Title

3/6/20

Date

Submit